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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

08/18/2009

SCHWEGMAN, LUNDBERG & WOESSNER/SAP P.O. BOX 2938 MINNEAPOLIS, MN 55402 EXAMINER

DAO, THUY CHAN

ART UNIT PAPER NUMBER

2192

DATE MAILED: 08/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,617	12/30/2003	Nikolai G. Nikolov	6570P041	9855

TITLE OF INVENTION: EXECUTION OF MODIFIED BYTE CODE FOR DEBUGGING, TESTING AND/OR MONITORING OF OBJECT ORIENTED SOFTWARE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including d below or directed other tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	maintenance fees w spondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/749,617	12/30/2003	•	Nikolai G. Nikolov			6570P041	9855
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nonprovisional	NO	\$1510	\$0	\$0		\$1510	11/18/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
DAO, THU	JY CHAN	2192	717-124000	_			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			or agents OR, alternati  (2) the name of a single registered attorney or a	of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a princy or agent) and the names of up to atent attorneys or agents. If no name is			
PLEASE NOTE: Unli recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CITY	atent. If an assign assignment.  Yand STATE OR C	OUNT	RY)	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporati	on or other private gro	oup entity Government
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5. Change in Entity Stat	t <b>us</b> (from status indicated s SMALL ENTITY statu	*	☐ b. Applicant is no lon	aor claimina SMAI	LEN	FITV status See 37 C	ED 1.27(a)(2)
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Authorized Signature				Date			
Typed or printed name				_			
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50400 75	590 08/18/2009		EXAM	INER	
SCHWEGMAN,	LUNDBERG & WO	DAO, THUY CHAN			
P.O. BOX 2938		ART UNIT	PAPER NUMBER		
MINNEAPOLIS, I	MN 55402		2192		
			DATE MAILED: 08/18/200	9	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 481 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 481 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	   10/749,617	NIKOLOV, NIKOLAI G.		
Notice of Allowability	Examiner	Art Unit		
	Thuy Dao	2192		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commitments. This application is	n this application. If not included unication will be mailed in due course. <b>THIS</b>		
1. This communication is responsive to <u>05/28/09</u> .				
2. 🔀 The allowed claim(s) is/are <u>1-11,13-28,and 30-34 (renumb</u>	<u>ered 1-32)</u> .			
3.	e been received. e been received in Application cuments have been received of this communication to file. IENT of this application.  itted. Note the attached EX es reason(s) why the oath cost be submitted. Is on's Patent Drawing Reviews.	on No  ed in this national stage application from the e a reply complying with the requirements  AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.  w ( PTO-948) attached		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on	the drawings in the front (not the back) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the		
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO/SB/08),</li></ul>	6. ☐ Interview S Paper No 7. ☒ Examiner's 8. ☒ Examiner's 9. ☐ Other /Tuan Q. Dam	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowance		

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**DETAILED ACTION** 

1. This action is responsive to the amendments filed May 28, 2009. In the instant

amendment, claims 1, 18, and 30 have been amended.

2. The object to claims 1 and 18 is withdrawn in view of Applicant's amendments.

3. Claims 1-11, 13-28, and 30-34 have been examined, and all remained pending

claims are allowed (renumbered 1-32).

**Examiner's Amendments** 

4. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

5. Authorization for this examiner's amendment was given in a telephone interview with

Mr. Scheer, Registration No. 47,059, on August 12th, 2009, to obviate minor informality,

re-define the claim language, and put the claims in condition for allowance.

IN THE CLAIMS: Claims 1 and 18 have been amended as follows:

Claim 1 (Currently Amended),

Line 29, after "method", insert, wherein said dispatcher includes: i) a dictionary

that is used to correlate said first and third methods to said plug-in module, and, ii) a

plug-in pattern which lists said first and third methods along with additional methods that

said dispatcher dispatches to said plug-in module.

Claim 18 (Currently Amended),

Line 30, after "said third", delete [[method]], and insert method.

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### **Examiner's Statement of Reasons for Allowance**

6. As Applicants pointed out in the Remarks, the prior art of record (Boykin, APA, and Ward) do not disclose and/or fairly suggest at least claimed limitations in independent claim 1 "...a) invoking a second method from a first method instrumented with bytecode, said first method belonging to said classfile, said invoking comprising providing an identification of said first method and said classfile, said second method belonging to a dispatcher, said classfile having previously registered with said dispatcher, said dispatcher incapable of injecting bytecode into said classfile; b) said dispatcher performing said second method to identify a plug-in module for said first method based upon said identification, said plug-in module to implement a handler method, said dispatcher returning to said first method an identifier of said plug-in module, said identifier not being a boolean value representative of one of only two possible states;... f) invoking said second method from said third method, said invoking including providing an identification of said third method and a second classfile that said third method is a part of, said second classfile having been loaded and said third method instrumented with bytecode at least by the completion of e) above, said second classfile having previously registered with said dispatcher, said dispatcher incapable of injecting bytecode into said second classfile;... wherein said dispatcher includes: i) a dictionary that is used to correlate said first and third methods to said plug-in module, and, ii) a plug-in pattern which lists said first and third methods along with additional methods that said dispatcher dispatches to said plug-in module " and similar in such manners recited in other independent claim 18 (Remarks, pp. 10-12).

These claimed limitations are not present in the prior art of record and would not have been obvious, thus all pending claims are allowed.

#### Conclusion

7. Any inquiry concerning this communication should be directed to examiner Thuy Dao (Twee), whose telephone/fax numbers are (571) 272 8570 and (571) 273 8570, respectively. The examiner can normally be reached on every Tuesday, Thursday, and Friday from 6:00AM to 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam, can be reached at (571) 272 3695.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273 8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is (571) 272 2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Thuy Dao/ Examiner, Art Unit 2192 /Tuan Q. Dam/ Supervisory Patent Examiner, Art Unit 2192